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DATE: Monday, November 26, 2007

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⌐	L111	(l104 or l105 or l106 or l107 or l108 or l109) and l102	1
⌐	L110	CHALECKI-JASON-P.in.	0
⌐	L109	JHA-RAJESH-K.in.	2
⌐	L108	PAVLICIC-MILADIN.in.	5
⌐	L107	BARAC-DRAGOS.in.	6
⌐	L106	YIU-KELVIN-S.in.	6
⌐	L105	NARENDRAN-ARUNGUNDRAM.in.	4
⌐	L104	SIKCHI-PRAKASH.in.	13
⌐	L103	L102 and (XML near (file or files or folder or folders))	4
⌐	L102	(l92 or l93 or l95 or l96 or l97 or l98 or l99 or l100 or L101) and l46	24
⌐	L101	715/513.ccls.	3526
⌐	L100	717/121.ccls.	271
⌐	L99	717/101.ccls.	401
⌐	L98	717/100.ccls.	677
⌐	L97	707/4.ccls.	2792
⌐	L96	707/203.ccls.	1941
⌐	L95	707/200.ccls.	3265
⌐	L94	707/104.1.ccls.	6772
⌐	L93	707/100.ccls.	5812
⌐	L92	707/1.ccls.	6188
⌐	L91	L62 and download$	4
⌐	L90	L64 and web	4
⌐	L89	L64 and www	0
⌐	L88	L87 and internet	2
⌐	L87	L64 and copy$	2
⌐	L86	L64 and sav$	2
⌐	L85	L64 and (install$ or transfer$)	4
⌐	L84	L64 and (folder or folders or files or file)	4
⌐	L83	L64 and download$	0

⌐	L82	L68 and L80	2
⌐	L81	L67 and L80	1
⌐	L80	edit$ near (data adj file)	420
⌐	L79	L78 and internet same sav$ same (data adj file)	0
⌐	L78	L77 and @ad<=20030324	172
⌐	L77	XML near (data adj1 file)	405
⌐	L76	L75 and (user same edit$ same (folder or folders or files or file))	25
⌐	L75	L74 and @ad<=20030324	55
⌐	L74	(sav$ near XML near (file or files or folder or folders))	148
⌐	L73	L72 and L58	31
⌐	L72	user same edit$ same (data adj file)	1665
⌐	L71	L68 and (user near (file or files or folder or folders))	24
⌐	L70	L68 and (user same (file or files or folder or folders))	161
⌐	L69	L68 and L61	0
⌐	L68	L66 and @ad<=20030324	382
⌐	L67	L65 and @ad<=20030324	63
⌐	L66	(XML near (file or files or folder or folders)).ab.	893
⌐	L65	(XML near (file or files or folder or folders)).ti.	158
⌐	L64	L62 and @ad<=20030324	4
⌐	L63	L58 and @ad<=20030324	172
⌐	L62	L58 and L61	19
⌐	L61	enabl$3 same user same edit$ same (data adj1 file)	197
⌐	L60	L59 and (user near file)	23
⌐	L59	L58 and @ad<=20030324	172
⌐	L58	(XML near (data adj1 file))	405

DB=USPT; PLUR=NO; OP=OR

⌐	L57	(L54 or L55) and ((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	32
⌐	L56	(L54 or L55) and ((file or files or folder or folders) near solution$)	10
⌐	L55	(707/100 |707/101 |707/102 |707/103R |707/103Y |707/103X |707/103Z |707/104.1).ccls.	9953
⌐	L54	(707/1 |707/2).ccls.	4578

DB=TDBD; PLUR=NO; OP=OR

⌐	L53	((file or files or folder or folders) near solution$)	6

DB=JPAB; PLUR=NO; OP=OR

⌐	L52	((file or files or folder or folders) near solution$)	722

DB=EPAB; PLUR=NO; OP=OR

⌐	L51	((file or files or folder or folders) near solution$)	2

DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

⌐	L50	((file or files or folder or folders) near solution$)	747
		DB=USPT; PLUR=NO; OP=OR	
⌐	L49	L48 not microsoft	73
⌐	L48	((file or files or folder or folders) near solution$)	114
		DB=PGPB; PLUR=NO; OP=OR	
⌐	L47	L46 not microsoft	83
⌐	L46	((file or files or folder or folders) near solution$)	147
⌐	L45	((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	298
		DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR	
⌐	L44	((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	45
		DB=USPT; PLUR=NO; OP=OR	
⌐	L43	((file or files or folder or folders) near (solution or solutions))	112
⌐	L42	(L26 or L27) and ((file or files or folder or folders) near install$)	23
⌐	L41	(L26 or L27) and ((file or files or folder or folders) and install$)	94
⌐	L40	(L2 or L3) and ((download$ or upload$ or transfer$ or distribut$) same (file or files or folder or folder$) same (offline or (off adj1 line) or offline) same (online or (on adj1 line) or online))	1
⌐	L39	(L2 or L3) and ((download$ or upload$ or transfer$ or distribut$) with (file or files or folder or folder$) with (offline or (off adj1 line) or offline) with (online or (on adj1 line) or online))	0
⌐	L38	(L2 or L3) and ((download$ or upload$ or transfer$ or distribut$) near (file or files or folder or folder$) near (offline or (off adj1 line) or offline) near (online or (on adj1 line) or online))	0
⌐	L37	L36 and (off-line or (off adj1 line) or offline or (on adj1 line) or online or on-line)	0
⌐	L36	(6848078 6658417 6549922 6192367).pn.	4
⌐	L35	(L26 or L27) and (offline or (off adj1 line))	30
⌐	L34	(L26 or L27) and ((edit$ or chang$ or modif$) near (file or files or folder or folders))	101
⌐	L33	(L28 or L29) and (open$ with (file or files or folder or folders))	1
⌐	L32	(L28 or L29) and (open$ near (file or files or folder or folders))	1
⌐	L31	L30 and (file or files or folder or folders)	92
⌐	L30	(offline or (off adj1 line)).ti.	266
⌐	L29	(L2 or L3) and (offline or (off adj1 line)).ti.	0
⌐	L28	(L2 or L3) and (offline or (off adj1 line)).ab.	5
⌐	L27	(L2 or L3) and (file or files or folder or folders).ab.	289
⌐	L26	(L2 or L3) and (file or files or folder or folders).ti.	114
⌐	L25	(L2 or L3) and ((file or files or folder or folders) with offline)	5
⌐	L24	L23 and ((menu$ or icon$ or button$ or window$) near (file$ or folder$))	17
⌐	L23	L22 and (open$ with (file$ or folder$))	73
⌐	L22	(L18 or L19) and (gui or display or (graphical adj1 user adj1 interfac$))	175

⌐	L21	(6369840 6421070 6476833 6493702 6560640 6631357 6678717).pn.	7
⌐	L20	(L18 or L19) and (offline or (off adj1 line))	30
⌐	L19	(L2 or L3) and (file$ or folder$).ab.	294
⌐	L18	(L2 or L3) and (file$ or folder$).ti.	116
⌐	L17	L16 and ((offline or (off adj1 line)) adj1 memor$)	11
⌐	L16	((offline or (off adj1 line)) with (file$ or folder$))	1400
⌐	L15	(L2 or L3) and (off adj1 line).ab.	5
⌐	L14	(L2 or L3) and (off adj1 line).ti.	0
⌐	L13	L12 and (file$ or folder$)	30
⌐	L12	(offline same memor$).ab.	42
⌐	L11	(offline same memor$).ti.	0
⌐	L10	(offline adj1 memor$).ti.	0
⌐	L9	(offline adj1 memor$).ab.	0
⌐	L8	(offline near memor$).ab.	0
⌐	L7	(offline near memor$).ti.	0
⌐	L6	(L2 or L3) and (offline adj1 memor$)	0
⌐	L5	(L2 or L3) and (offline same memor$)	5
⌐	L4	(L2 or L3) and ((file$ or folder$) with (offline near memor$))	0

⌐ L3

(L2).pn. (5572499 5572596 5572648 5574722 5590087 5600840 5600836
5602973 5604894 5604889 5613160 5636360 5638508 5642503 RE35562
5650935 5671415 5684797 5692128 5701498 5721929 5721956 5737743
5740367 5751836 5752269 5761407 5761494 5768623 5778225 5787441
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5831875 5835909 5838614 5844822 5845313 5848232 5852824 5870581
5870316 5878422 5881269).pn. (5884303 5889989 5892681 5907856 5911074
5913227 5917485 5920570 5924113 5923897 5930815 5933609 5933825
5936643 5953534 5956481 5960205 5964872 5974427 5974443 5977891
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6009502 6009263 6023578 6029190 6049860 6057800 6058141 6058489
6061478 6061478 6065008 6065004 6064659 6073131 6076111 6079044
6092179 6092168 6098128 6112250 6110226).pn. (6115785 6115716 6122642
6128695 6138124 6145051 6144609 6151632 6167136 6167557 6172981
6178428 RE37031 6183933 6184592 6185623 6192488 6202068 6202210
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6230234 6233579 6237114 6253200 6292830 6321207 6321317 6330558
6353483 6362895 6366931 6366988 6374227 6381032 6381324 6392758
6393513 6395889 6396422 6396593 6398334 6429947 6436703).pn. (6464322
6516051 6526406 6791707 6865672 6912618 6925481 6681344 6766328
6817008 6826568 6249794 6012984 6094649 6163811 6223190 6223190
6301614 6327608 6336137 6351776 6356920 6393456 6397219 6397232
6426798 6446113 6453329 6460042 6463440 6466940 6505086 6529899
6529905 6532473 6535884 6542911 6549922 6557043 6571201 6571292
6578069 6587855 6589291 6590589 6598219 6601071 6606596 6611843
6613098).pn. (6625596 6631379 6631519 6635088 6635089 6647388 6647410

293

6654737 6654814 6657568 6665587 6671853 6681221 6681223 6684216
6684222 6691122 6697817 6704120 6704736 6735594 6741242 6763343
6772122 6772413 6778992 6781609 6792575 6795868 6810136 6810399
6820135 6823478 6826555 6826582 6832215 6836779 6848078 6850950
6854120 6868423 6882996 6886130 6886131 6892328 6901403 6910029
6920607 6922704).pn.

⌐	L2	(5929858 5627996 5390313 5454101 5560007 5666528 5787283 5907137 5948070 6018743 6085251 6192129 6243470 4322793 4583133 4783739 4811388 4835708 4847749 4870608 4884211 4885461 4887151 4918646 4970663 4987502 5014197 5181231 5212772 5225978 5230572 5231593 5243543 5251152 5307497 5313638 5381947 5392081 5404484 5405076 5418524 5422993 5465328 5485595 5511002 5521630 5539879 5548751 5563592 5566032)	1466
⌐	L1	(6774926 6772139 6751777 6748385 6477544 6434564 6389434 6122647 5991710 5806079 6581061 6343302 6563514).pn.	13

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The **"AND"** operator is unnecessary -- we include all search terms by default. [details]

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1   Research sessions: Research 3: XML processing: A linear time algorithm for optimal tree sibling partitioning and approximation algorithms in Natix
Carl-Christian Kanne, Guido Moerkotte
September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**
Publisher: VLDB Endowment
Full text available: 📄 pdf(596.42 KB)   Additional Information: full citation, abstract, references, index terms

   Document insertion into a native XML Data Store (XDS) requires to partition the document tree into a number of storage units with limited capacity, such as records on disk pages. As intra partition navigation is much faster than navigation between partitions, minimizing the number of partitions has a beneficial effect on query performance. We present a linear time algorithm to optimally partition an ordered, labeled, weighted tree such that each partition does not exceed a fixed weight limit. Whe ...

2   WHAT: an XSLT-based infrastructure for the integration of natural language processing components
Ulrich Schäfer
May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03**
Publisher: Association for Computational Linguistics
Full text available: 📄 pdf(158.89 KB)   Additional Information: full citation, abstract, references

   The idea of the Whiteboard project is to integrate deep and shallow natural language processing components in order to benefit from their synergy. The project came up with the first fully integrated hybrid system consisting of a fast HPSG parser that utilizes tokenization, PoS, morphology, lexical, named entity, phrase chunk and (for German) topological sentence field analyses from shallow components. This integration increases robustness, directs the search space and hence reduces processing ti ...

3   Algorithms and programming models for efficient representation of XML for Internet applications
Neel Sundaresan, Reshad Moussa
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: 📄 pdf(352.97 KB)   Additional Information: full citation, references, citings, index terms

10\1728,862

Keywords: DOM, SAX, WBXML, XML, compression

4 An analysis of XML database solutions for the management of MPEG-7 media
descriptions
Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press

Full text available: pdf(448.76 KB)   Additional Information: full citation, abstract, references, citings, index
terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can
be expected that a lot of applications based on MPEG-7 media descriptions will be set up
in the near future. Therefore, means for the adequate management of large amounts of
MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media
descriptions are XML documents following media description schemes defined with a
variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

5 Fast online pointer analysis
Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind
April 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(430.96 KB)   Additional Information: full citation, abstract, references, index terms

Pointer analysis benefits many useful clients, such as compiler optimizations and bug
finding tools. Unfortunately, common programming language features such as dynamic
loading, reflection, and foreign language interfaces, make pointer analysis difficult. This
article describes how to deal with these features by performing pointer analysis online
during program execution. For example, dynamic loading may load code that is not
available for analysis before the program starts. Only an online an ...

Keywords: Pointer analysis, class loading, native interface, reflection

6 Optimizing the lazy DFA approach for XML stream processing
Danny Chen, Raymond K. Wong
January 2004 **Proceedings of the 15th Australasian database conference - Volume 27
ADC '04**
Publisher: Australian Computer Society, Inc.

Full text available: pdf(190.92 KB)   Additional Information: full citation, abstract, references, citings, index
terms

Lazy DFA (Deterministic Finite Automata) approach has been recently proposed to for
efficient XML stream data processing. This paper discusses the drawbacks of the
approach, suggests several optimizations as solutions, and presents a detailed analysis for
the processing model. The experiments show that our proposed approach is indeed
effective and scalable.

Keywords: XML, XPath, lazy DFA, stream data

7 Poster 2: applications track: Implementation of a mobile MPEG-21 peer

Shane Lauf, Ian Burnett

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(91.15 KB)   Additional Information: full citation, abstract, references, index terms

The MPEG-21 Multimedia Framework aims to realize interoperable access to content across heterogeneous networks and devices. Within the Framework, the concept of Digital Items is introduced as a structured digital representation for multimedia. To demonstrate the applicability of MPEG-21 to seamless multimedia interactions on limited platforms, the authors have produced an implementation of MPEG-21 for a mobile device, in Java 2 Micro Edition (J2ME). This paper examines the design and implementat ...

Keywords: MPEG-21, mobile applications, multimedia

8 Industrial session: XML support in relational system: CXHist: an on-line classification-based histogram for XML string selectivity estimation

Lipyeow Lim, Min Wang, Jeffrey Scott Vitter

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(283.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

Query optimization in IBM's System RX, the first truly relational-XML hybrid data management system, requires accurate selectivity estimation of path-value pairs, i.e., the number of nodes in the XML tree reachable by a given path with the given text value. Previous techniques have been inadequate, because they have focused mainly on the tag-labeled paths (tree structure) of the XML data. For most real XML data, the number of distinct string values at the leaf nodes is orders of magnitude larger ...

9 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB)   Additional Information: full citation, index terms

10 Removing the memory limitations of sensor networks with flash-based virtual memory

Andreas Lachenmann, Pedro José Marrón, Matthias Gauger, Daniel Minder, Olga Saukh, Kurt Rothermel

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007 EuroSys '07**, Volume 41 Issue 3

Publisher: ACM

Full text available: pdf(598.65 KB)   Additional Information: full citation, abstract, references, index terms

Virtual memory has been successfully used in different domains to extend the amount of memory available to applications. We have adapted this mechanism to sensor networks, where, traditionally, RAM is a severely constrained resource. In this paper we show that the overhead of virtual memory can be significantly reduced with compile-time optimizations to make it usable in practice, even with the resource limitations present in sensor networks.

Our approach, *ViMem*, creates an effi ...

Keywords: flash memory, memory layout, virtual memory, wireless sensor networks

11 Mobile devices: m-LOMA - a mobile 3D city map

Antti Nurminen

April 2006 **Proceedings of the eleventh international conference on 3D web technology Web3D '06**

Publisher: ACM Press

Full text available: pdf(458.46 KB)   Additional Information: full citation, abstract, references, index terms

m-LOMA, mobile LOcation-Aware Messaging Application, is designed to be a mobile portal to location-based information in cities. The user can perform textual searches to location-based content, navigate using 2D maps assisted by a GPS, and leave messages to the environment, or recognize the environment from a 3D map. The 3D map view is the key feature of the m-LOMA system. The m-LOMA client is capable of rendering photorealistic 3D city models with augmented location-based information in a ...

Keywords: 3D graphics, 3D maps, GIS, VRML, mobile computing, mobile guides, visibility

12 Research sessions: XML I: StatiX: making XML count

Juliana Freire, Jayant R. Haritsa, Maya Ramanath, Prasan Roy, Jérôme Siméon

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.13 MB)   Additional Information: full citation, abstract, references, citings, index terms

The availability of summary data for XML documents has many applications, from providing users with quick feedback about their queries, to cost-based storage design and query optimization. *StatiX* is a novel XML Schema-aware statistics framework that exploits the structure derived by regular expressions (which define elements in an XML Schema) to pinpoint places in the schema that are likely sources of *structural skew*. As we discuss below, this information can be used to build conci ...

13 Data processing in the large: The microsoft data platform

David Campbell, Anil Nori

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: pdf(662.76 KB)   Additional Information: full citation, abstract, references, index terms

Advances in hardware, storage, devices, connectivity, and web technology are changing the way applications are designed, deployed, and managed. Applications are increasingly becoming data-centric and data is everywhere, and in all tiers (from the client to the cloud). Data across multiple tiers requires data access and management capabilities across these tiers.

The Microsoft Data Platform presents a vision for an end-to-end data platform that offers data services across all tiers.

Keywords: client, cloud, data platform, device, model-centric data and services,

synchronization, tiers

14 Languages: Deeply embedded XML communication: towards an interoperable and
seamless world
Johannes Helander
September 2005 **Proceedings of the 5th ACM international conference on Embedded
software EMSOFT '05**
Publisher: ACM Press
Full text available: pdf(151.99 KB)   Additional Information: full citation, abstract, references, index terms

> Current consumer electronics devices do not interoperate and are hard to use. Devices
> use proprietary, device-specific and inflexible protocols. Resources across device classes,
> such as personal computers and home appliances cannot be taken advantage of. Even
> recent efforts to connect sensors into networks concentrate on new, ad-hoc protocols that
> segregate the low-cost devices into their own little world.If all classes of devices could
> speak the same language, they could talk directly to each o ...
>
> **Keywords**: SOAP, XML, embedded systems, home networking, invisible computing,
> service oriented architecture

15 Publish-subscribe systems: Efficient xml data dissemination with piggybacking
Chee Yong Chan, Yuan Ni
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on
Management of data SIGMOD '07**
Publisher: ACM Press
Full text available: pdf(302.56 KB)   Additional Information: full citation, abstract, references, index terms

> Content-based dissemination of XML data using the publish-subscribe paradigm is an
> effective means to deliver relevant data to interested data consumers. To meet the
> performance challenges of content-based filtering and routing, two key optimizations have
> been developed: the use of efficient indexes to speed up subscription filtering, and the
> use of effective aggregation algorithms to reduce the number of subscriptions. The
> effectiveness of both these techniques are, however, limited to local ...
>
> **Keywords**: XML, XPath, annotation, data dissemination, piggybacking, pub/sub system

16 XML and text: XRANK: ranked keyword search over XML documents
Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on
Management of data SIGMOD '03**
Publisher: ACM Press
Full text available: pdf(265.38 KB)   Additional Information: full citation, abstract, references, citings, index
terms

> We consider the problem of efficiently producing ranked results for keyword search
> queries over hyperlinked XML documents. Evaluating keyword search queries over
> hierarchical XML documents, as opposed to (conceptually) flat HTML documents,
> introduces many new challenges. First, XML keyword search queries do not always return
> entire documents, but can return deeply nested XML elements that contain the desired
> keywords. Second, the nested structure of XML implies that the notion of ranking is no
> l ...

17 Session 12: design and development methods II: Combining software transactional
memory with a domain modeling language to simplify web application development

João Cachopo, António Rito-Silva
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**
Publisher: ACM Press
Full text available: pdf(189.06 KB)   Additional Information: full citation, abstract, references, index terms

> Current best practices on web application development build on a plethora of design patterns, frameworks, and tools to support commontasks such as handling requests from the user and persisting domain entities: Even the simplest web applications need suchthings. Thus, web application developers are forced to learn anenormous amount of technology before they can start being productivein the development process.This paper proposes a simpler approach to the development of web applications, based on ...

> **Keywords**: code generation, domain modeling, enterprise applications, persistence, transactions, web application architecture

18 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 **ACM Oral History interviews**
Publisher: ACM Press
Full text available: pdf(761.66 KB)   Additional Information: full citation, abstract

> Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

19 On the design of the local variable cache in a hardware translation-based java virtual machine

Hitoshi Oi
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '05**, Volume 40 Issue 7
Publisher: ACM Press
Full text available: pdf(118.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Hardware bytecode translation is a technique to improve the performance of the Java Virtual Machine (JVM), especially on the portable devices for which dynamic compilation is infeasible. However, since the translation is done on a single bytecode basis, it is likely to generate frequent memory accesses for local variables which can be a performance bottleneck.In this paper, we propose to add a small register file to the datapath of the hardware-translation based JVM and use it as a local variabl ...

> **Keywords**: hardware-translation, java virtual machine, memory hierarchy

20 2 - Regular Papers: A data structure for a sequence of string accesses in external memory

Valentina Ciriani, Paolo Ferragina, Fabrizio Luccio, S. Muthukrishnan
February 2007 **ACM Transactions on Algorithms (TALG)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(231.22 KB)   Additional Information: full citation, abstract, references, index terms

We introduce a new paradigm for querying strings in external memory, suited to the execution of sequences of operations. Formally, given a dictionary of n strings $S_1, ..., S_n$, we aim at supporting a search sequence for m not necessarily distinct strings $T_1, T_2, ..., T_m$, as well as inserting and deleting individual strings. The dictionary is stored on disk, where each ac ...

Keywords: Skip list, caching, external-memory data structure, sequence of string searches and updates

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